



Cost Assessment Data Enterprise

Quantity, Technical, and Repair Part Data Reporting

July 2016

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Last Updated: July 11, 2016

CAPE
COST ASSESSMENT & PROGRAM EVALUATION



Cost Assessment Data Enterprise

Agenda

- **Importance of Technical & Programmatic Data**
- **CADE Vision & Goals**
- **Sources of Data**
- **Impact to Industry**
- **Current Status**

The background of the slide is a grayscale image of a military ship's deck. It shows various pieces of equipment, including a helicopter, a landing vehicle, and several personnel in uniform. The image is slightly faded to allow the text to be prominent.

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COST ASSESSMENT & PROGRAM EVALUATION

Importance of Program Data

- Defines the Program's Technical and Programmatic Baseline
 - Foundation for Independent Technical Assessments
 - Supports Architecture Trades
 - Highlights areas of potential risk
 - Identification and quantification of cost drivers
- ❖ Historically, Technical and Programmatic Data described in the DoD Cost Analysis Requirement Description (CARD) and ad hoc Contract CDRLs
- CARD (internal Govt document) was subject to interpretation by various Program Offices and typically used to define the program at the Milestone – not a recurring document
 - Ad hoc CDRLs provided valuable technical / programmatic information; however, they were frequently tailored to each unique program and inconsistent from program to program
- Cost data provided in the CDR and CSDBs

We Are Implementing Efficiencies to Capture Program Data

New Data Vision

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Comprehensive Data Availability:

- **Cost Data:** Contains the cost data needed to build an estimate
 - **FlexFiles (formerly 1921s):** New generation of cost data collection complemented with 1921-Q (quantity information)
- **Software Data:** Software effort, size, and schedule information
 - **Improved Software Resource Data Report (SRDR),** separated by Development and Maintenance
- **Technical and Programmatic Data:** Programmatic and Technical descriptions analysts need to build estimates
 - **New Cost Analysis Requirements Description (CARD)** complemented with 1921-T (technical data) and 1921-R (repair parts data)

Our Vision for CADE:

Tech & Programmatic Data Goals

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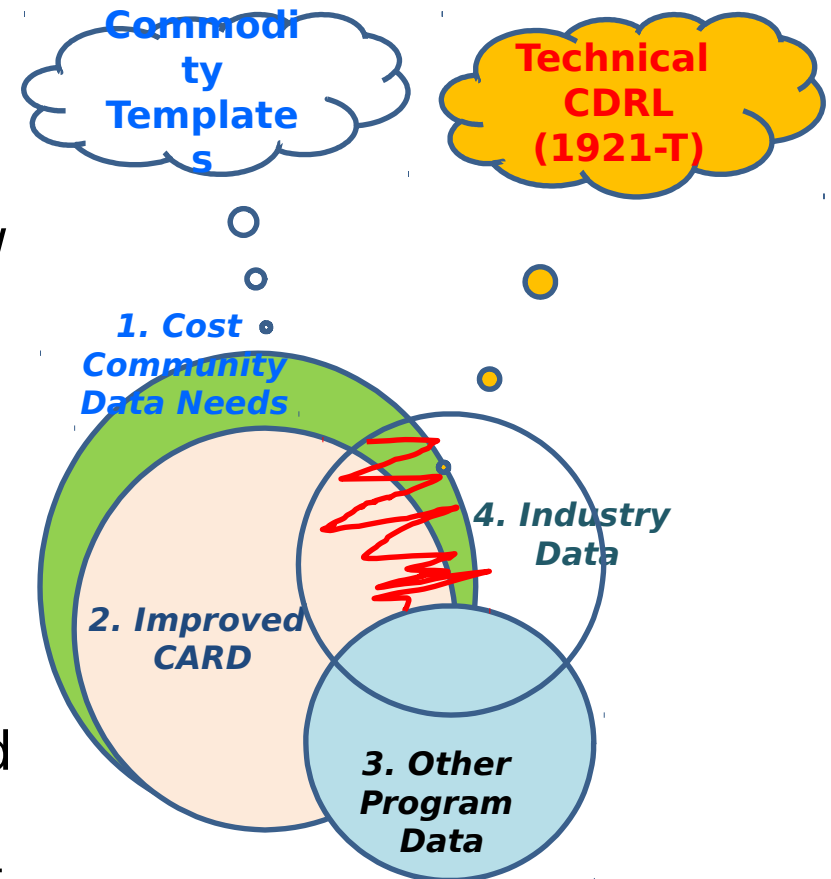
- Objective
 - Implement technical data reporting as part of the CSDR process while maximizing use of the improved CARD and existing data sources
- Work Products
 - Technical and Programmatic Data Templates for each commodity area structured *iaw* MIL-STD 881C appendices
 - Data Item Description (DID) – **MGMT DID** for tech data
 - Recommended Tech data Plan & CDRL – like Flex Files & SRDR
 - Recommend reporting levels
 - Recommend reporting frequency
 - Formal Incorporation of Technical Data Reporting using the improved CSDR process and CSDR Plan
 - Data upload/download process using DCARC/CADE

Potential Sources of Data

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- Proper Coordination of various data sources limits the impact to Industry

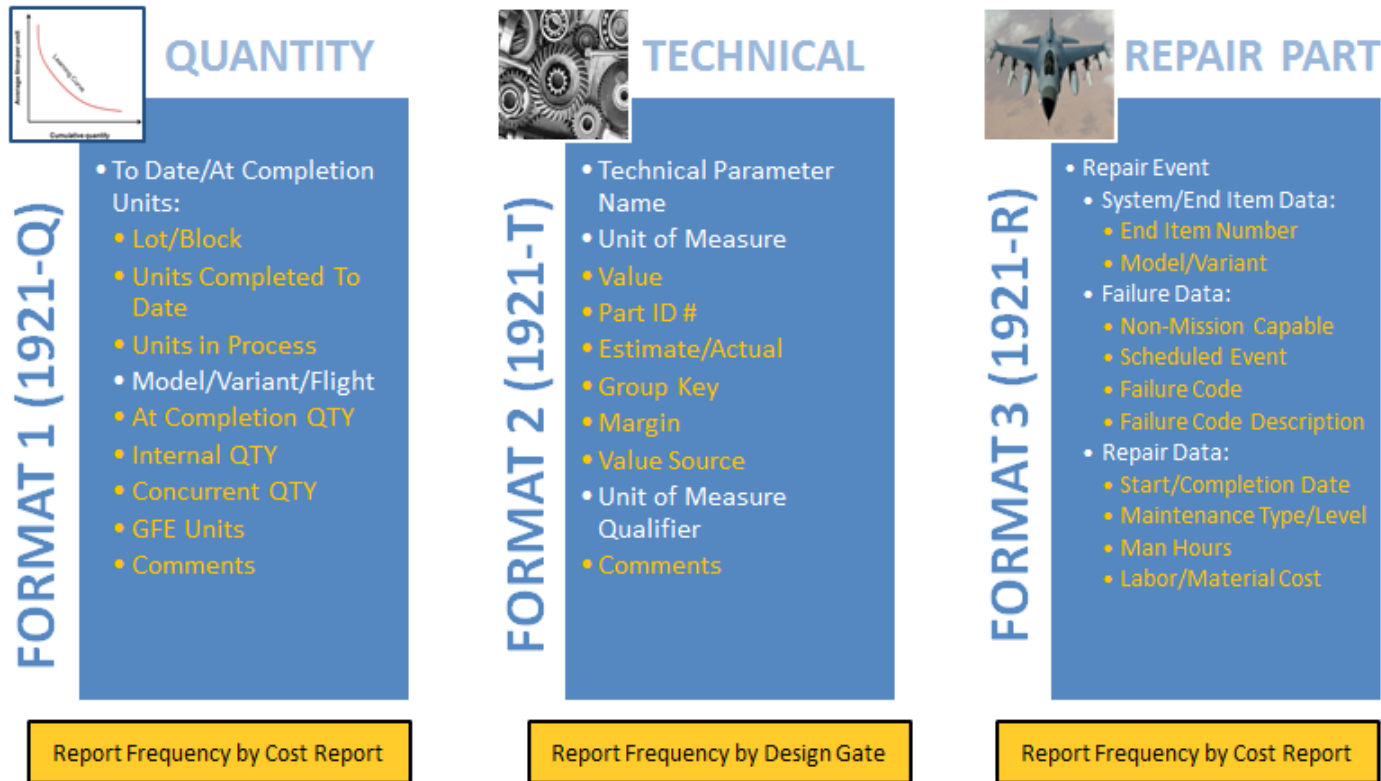
1. Commodity Templates completed to define Cost Community data needs
2. CARD improvement that now include more technical and programmatic information through life of program
3. Leverage other documents (e.g., engineering CDRLs, IMS) to complete our data needs
4. Industry Data – technical and programmatic data normally produced by Industry consist with business procedures



Size
Weight
Power
Heritage
Frequency
Data Rate
Power Efficiency
Design Life
Range
Speed
Environment
Accuracy
MIL-Spec vs. Commercial
Block Diagram

What Does This Mean to Industry

- Industry will see a 3 Part MGMT DID for technical data:



- Actual Information required on each contract will vary according to program scope, phase, and other contract data requested

Smart Implementation of the DID via CDRL Minimize the Impact to Industry & Govt

Contracting for Tech Data

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No. 0704-0188	
<p>The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other notice that may appear on this form, it does not impose any reporting requirements on persons who are not subject to the collection of information. If it does not impose a reporting requirement, send completed form to the Government Issuing Contracting Officer for the Contractor No. listed in Block E.</p>					
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____	
D. SYSTEM/ITEM		E. CONTRACT/PR NO.		F. CONTRACTOR	
1. DATA ITEM NO.		2. TITLE OF DATA ITEM Technical Data Report (DD Form 1921-T)		3. SUBTITLE Contractor Cost Data Reporting (CCDR)	
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-5897A		5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
7. DTD STATEMENT REQUIRED		8. DATE OF FIRST SUBMISSION		9. DISTRIBUTION	
8. APP CODE		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION	
16. REMARKS		<p>Blocks 10 - 13: Prepare the Cost Data Summary Report (CDSR) in accordance with DI-FNCL-81565C (or the most recently approved version) and the OSD Deputy Director, Cost Assessment (DDCA)-approved contract CSDR Plan. The DID, DI-FNCL-81565C, is available from the Defense Cost and Resource Center (DCARC) website at http://cade.osd.mil/csd/FormsReporting.aspx#DIDs. The CSDR Plan is included as a contract attachment.</p> <p>Contractors shall be required to submit the Contractor Cost Data Reports (CCDRs) at frequencies specified in the OSD DDCA-approved CSDR plan and in the contract. The contract CSDR plan uses the event field as the driver for the submission of the reports, not the "as of date." If the event slips, the contractor must notify the Government Program Office that a date change is needed. It is the responsibility of the Government Program Office to submit a request for change in the event-driven date for reporting through the CSDR Submit-Review system for DCARC approval before the date reflected in the OSD DDCA-approved CSDR Plan.</p> <p>All CCDRs shall be submitted electronically using the CSDR Submit-Review System. The required form and file type for each CCDR is specified in its Data Item Description (DID). Data submitters must register through the DCARC website and possess a DoD-approved ECA digital certificate or DoD-issued CAC to obtain a DCARC Portal account and be authorized to upload CSDR content. Users can obtain access by submitting user information about themselves and their organizations to the DCARC Portal and requesting a CSDR submitter user role. After the registration information has been verified, the DCARC shall authorize the user account and requested roles. All DCARC Portal accounts need to be renewed at least annually.</p> <p>Subcontractor Reporting: Prime contractors are responsible for flowing down CSDR requirements contained in their prime contracts to all subcontractors who meet the reporting thresholds specified in the DoDI 5000.02, or as required by the CWIPT. This includes requiring subcontractors to electronically report directly to the DCARC using the CSDR Submit-Review System.</p> <p>The prime contractor shall be required to work with the CWIPT and all appropriate subcontractors to prepare separate subcontract CSDR plans for submission to the DCARC for DDCA approval.</p>			
15. TOTAL		0 0 0			
G. PREPARED BY		H. DATE		I. APPROVED BY	
				J. DATE	

★ Consistent with CSDR Planning and Contracting process today

Reference to DD Form

1921-T
Reference to
Technical Data
Report MGMT DID
Refers Contractor to
CSDR Plan for
reporting
requirements

- Level of indenture



TECHNICAL

FORMAT 1 (1921-T)

- Technical Parameter Name
- Unit of Measure
- Value
- Part ID #
- Estimate/Actual
- Group Key
- Margin
- Value Source
- Unit of Measure Qualifier
- Comments

Report Frequency by Design Gate



QUANTITY

FORMAT 2 (1921-Q)

- To Date/At Completion Units:
- Lot/Block
- Units Completed To Date
- Units in Process
- Model/Variant/Flight
- At Completion QTY
- Internal QTY
- Concurrent QTY
- GFE Units
- Comments

Report Frequency by Cost Report



REPAIR PART

FORMAT 3 (1921-R)

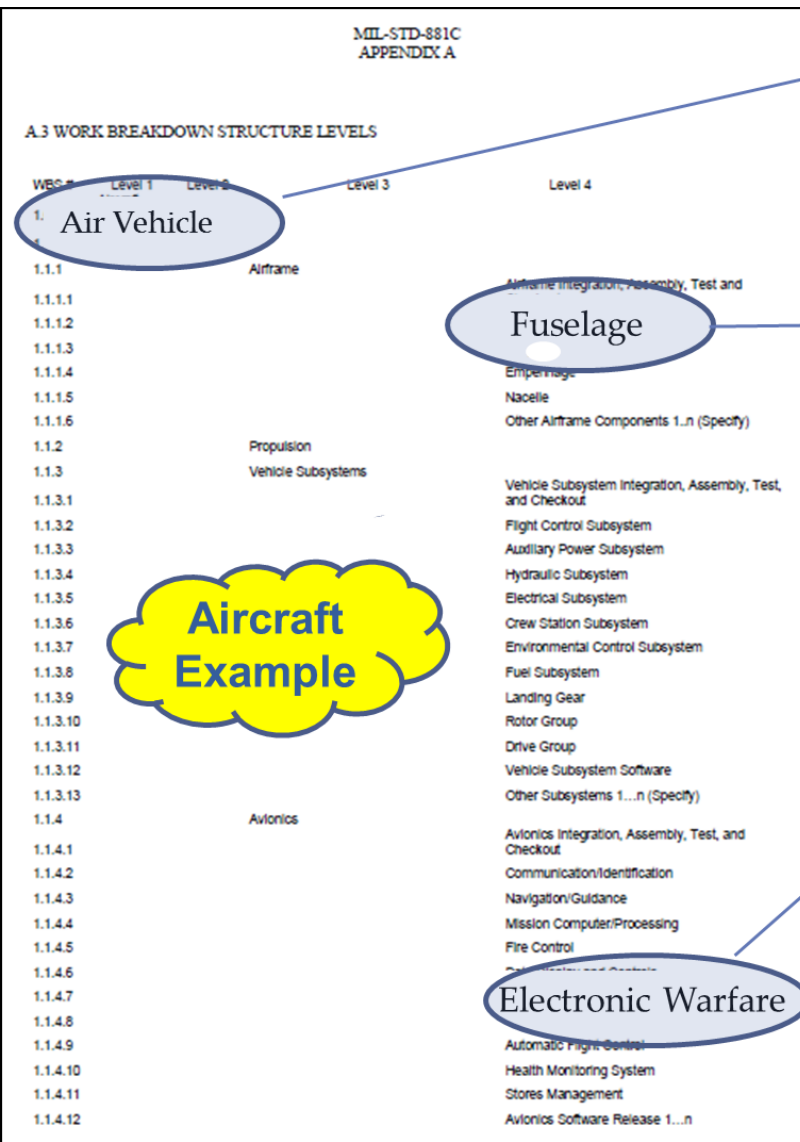
- Repair Event
- System/End Item Data:
- End Item Number
- Model/Variant
- Failure Data:
- Non-Mission Capable
- Scheduled Event
- Failure Code
- Failure Code Description
- Repair Data:
- Start/Completion Date
- Maintenance Type/Level
- Man Hours
- Labor/Material Cost

Report Frequency by Cost Report

Aircraft Tech Data Example, 1921-T

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Aircraft System Level Parameters:

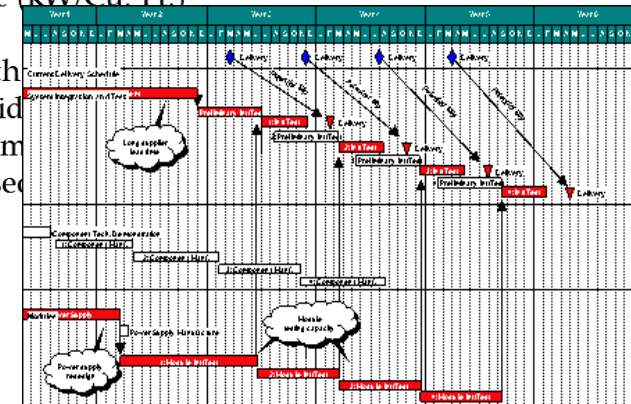
- System Physical Characteristics:
 - Length, Width, Height, Weight,...
- System Performance Characteristics:
 - Speed, Range, ...

Fuselage Parameters:

- Weight
- Drawing Types/Count
- Material Mix
- Parts Count
- ...

EW System Level Parameters:

- Total Weight (lbs)
- TRL
- Input Power
- Total HW Suite Volume (Cu. Ft)
- Power Density HW Suite (kW/Cu. Ft.)
- # Configurations
- Instantaneous Bandwidth
- Typical Receiver Bandwidth
- Minimum Pulse Width (msec)
- Typical Pulse Width (msec)
- Scan Rate (RPM)
- Accuracy (+/- Mhz)
- Response (sec)
- Coverage (deg)
- Azimuth (deg)
- ...



Technical Data DID Status

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- DID Status
 - December 2015 Draft DID comments received and Improvements made to DID Formats
 - July 2016 Draft DID Update
 - Inclusion of Repair Part form and instructions
 - Pilots Programs needed to test efficiency of the process
 - Industry Comments / Recommendations are encouraged

Industry Involvement can shape the CDRL requests and DID language

- Tech Data requests already on contract / in RFPs